

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** MAH/RTG/BX-10/GOA

**Mine code :** 07MSH20006

- (i) Name of the Inspecting : **NKK** ) **NARESH KUMAR KATARIYA**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI. PRAMOD SARODE, MINES MANAGER AND OTHER OFFICIAL  
Official with  
Designation
- (iv) Date of Inspection : 06-NOV-23
- (v) Prev.inspection date : 09-DEC-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GUDEGHAR BAUXITE MINE**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MAHARASHTRA  
District : RATNAGIRI  
Village : GUDEGHAR  
Taluka : MANDANGAD  
Post office : UMROLI  
Pin Code : 415208  
FAX No. : 0832-2454590  
E-mail : banerjee@fkpl.com  
Phone : 0832-2454575
- (f) Police Station : Veshvi / Bankot
- (g) First opening date : 16-FEB-11
- (h) Weekly day of rest : SUN
2. Address for : Gudeghar Bauxite mine of M/s ILPL  
correspondance C/o Dr. Satish Awale, H.No.376 , Near Post Offic  
Tal.- Mandangad, Dist-Ratnagiri, Pin code- 41520
3. (a) Lease Number : MSH0393
- (b) Lease area : 91.58
- (c) Period of lease : 50
- (d) Date of Expiry : 26-AUG-60
4. Mineral worked : BAUXITE Main

## 5. Name and Address of the

Lessee : INFRASTRUCTURE LOGISTICS PVT LTD  
 CIDADE DE GOA DONA PAULA  
 NORTH GOA GOA  
 Phone:0832-2454590  
 FAX :0832-2454590

Owner : Milind Sardessai  
 Infrastructure Logistics  
 Pvt. Ltd. Cidade de Goa,  
 Dona Paula, Goa NORTH GOA  
 GOA  
 Phone: 0832-2454575, 9  
 FAX : 0832-2454575

Agent : D. R. VAZE  
 Cidade de Goa, Dona Paula,  
 Goa NORTH GOA GOA  
 Phone: 0832-2454575, 9850477966  
 FAX : 0832-2454575

## Mining Engineer

Name : PRAMOD V. SARODE, Full Time  
 Qualification : B.E.(MINING), 11 Years NAGPUR UNIVERSIT  
 Appointment/ : 01-JAN-13  
 Termination date

## Geologist

Name : Shri Atul Mandrekar., Full Time  
 Qualification : M. Sc-Geology  
 Appointment/ : 19-JUN-21  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	24-AUG-09
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	24-MAY-13
	:	Mining Scheme rule 12 MCDR1988	18-FEB-15
	:	MP review under 17(1) MCR 2016	20-AUG-19
	:	MP modif under 17(3) MCR 2016	13-AUG-21

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed	G1: 54.7838 Ha.	Established non mineralized area 36.79 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	G1 achieved in Mineralized area of 54.7838 Ha.	The remaining 1.13 Ha. of G2 areas are proposed for G1 level exploration in 2025-26.
1e	Balance reserve as on 01/04/20		0.424 Million Tonnes Bauxite. Average quality: 36.29% Al <sub>2</sub> O <sub>3</sub> .	As on 01.04.2023
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralized area measuring 54.7838 Ha. has been explored under G1 stage. During 2010-11 to 2020-21 period, 240 nos. of boreholes were drilled in the ML area with cumulative meterage of 2448.5m. Additional 57 nos. of trial pits have been dug by the lessee in F.Y 2021-22 (9 m <sup>3</sup> each).

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	E300475 to E300675 N1986768 to N1987133	E300475 to E300675 N1986768 to N1987133	No change in development locations.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	Single bench proposed and maintained.
2c	Stripping ratio or ore to OB ratio	1:0.19	1:0.29	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	27900 m3	43485.06 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Actual handling of waste was more in F.Y 2022-23 than the approved document. The waste was utilized for backfilling of mined out pits.

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	300000 Tonnes	299536.77 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	

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3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	No proposal	No Drilling & Blasting	
3k	Provision of mining machineries in mineral benches	Proposed with hydraulic excavators, and dumpers combination	Hydraulic excavators, and dumpers combination adopted.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 to 7m bench height proposed.	Average bench height of 6m is maintained.	
3m	Total area covered under excavation/pits	25.58 Ha. proposed in the approved RMP at the end of F.Y. 2024-25.	19.4142 Ha. including reclaimed area.	Actual pit extent is mentioned as per the AR 2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.19	1:0.29	

3o	Total area put in use under different heads at the end of year	Covered under O/c working:- 25.5813 Ha. (including reclamation) Occupied by Infrastructure & Roads:- 0.9457 Ha. Storage of ROM:- 0.0610 Ha. Plantation: 1.1870 Ha	Covered under O/c working:- 19.4142 Ha. (including reclamation) Occupied by Infrastructure & Roads:- 2.7165 Ha. Storage of ROM:- 5.4442 Ha.	Area put ot use at the end of the Mining Plan Period. (proposed for Five years)
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 300000 Tons 2019-20: 300000 Tons 2020-21: 300000 Tons 2021-22: 300000 Tons 2022-23: 300000 Tons	2018-19: 113892.48 Tons 2019-20: 196120.57 Tons 2020-21: 120522.16 Tons 2021-22: 299695.77 Tons 2022-23: 299536.77 Tons	
3q	General remarks of inspecting officers on method of mining etc.			Mining is found as per proposals in the approved document.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Backfilling proposed.	Backfilling of mined out areas have been carried out	No top soil and mineral reject generation during 2022-23.
4b	Location of topsoil, OB and mineral reject dumps	E300750 to E300835 N1986966 to N1987020	E300712 to E300913 N1986762 to N1986998	Overburden generated used for backfilling
4c	Number of dumps within lease area and outside of lease area	Lease area = Nil Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	Backfilling is proposed & done

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Retaining wall and garland drain constructed around the backfilled areas.
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall = 311 mtrs GarlandDrain = 146 mtrs	Retaining Wall = 311 mtrs GarlandDrain = 146 mtrs	Retaining wall and garland drain constructed.
4j	Number of settling ponds	Nil	5 Nos	Generated overburden waste has been utilized for backfilling of mined out areas. Retaining wall and garland drain are constructed around the backfilled areas.
4k	Specific comments of inspecting officer on waste dump management			

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#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction of mineral from mined out areas before starting backfilling proposed.	Backfilling of mined out areas have been carried out	The waste generated during mining operation has been utilized for backfilling.

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5b	Area under backfilling of mined out area	0.40 Ha. proposed in R.Y	2.4322 Ha.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	Reclamation = 0.40 Ha Rehabilitation = 4.59 Ha	Reclamation = 2.4322 Ha Rehabilitation = 4.59 Ha	1.59 Ha of barren land covered under plantation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Generated overburden waste has been utilized for backfilling of mined out areas. Reclamation by means of plantation is carried out over the backfilled area.

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#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Annual report on PMCP submitted.	
6b	Area available for rehabilitation (ha) .	4.33	2.1578	2.4322 Ha is reclaimed and rehabilitated by backfilling.
6c	afforestation done (ha).	4.33	2.1578	
6d	No. of saplings planted during the year	10825	4632	As per availability of area.
6e	Cumulative no .of plants	Not specified.	Apprx. 26000 nos. within ML area.	

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6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	811875 /-	698350 /-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	No proposal	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.40 Ha	2.4322 Ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	650	6635
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1500	2000

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.59 Ha	1.59 Ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment Monitoring Proposed	Environmental Monitoring carried by Mineral Engineering Services	Reports submitted to the office.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations are found to be carried out as per the approved proposals

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Grade wise sorting of ROM within the ML area as per buyer's requirement.	Sorting by visual method
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Proposed for all +30% Al <sub>2</sub> O <sub>3</sub> ROM.	Sorting is being recorded for all +30% Al <sub>2</sub> O <sub>3</sub> ROM.	
7d	Any beneficiation process at mines	No proposal.	Crushing & Dry Screening	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			After crushing and dry screening of ROM, ore is blended at the mine level to meet buyer's requirement.
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**Environment:**


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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed.	No Top soil	No Top soil encountered
8b	Concurrent use or storage of topsoil	Not Proposed.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	backfilling	As per proposal	The waste generated during mining operation has been utilised for backfilling
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal of Backfilling	Backfilling done	Backfilling has been done to restore the land for it's original use
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation over backfilled area proposed.	Plantation over backfilled area has been carried out.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	13267 Sapling Planted in the year 2022-23	Cumulative- Apprx 39647 nos. saplings reported as plantation within ML area.

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8g	Survival rate	70%	75%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water Sprinklers on roads are provided	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty around the mining area is very good.

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#### Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes.	M.R. Submitted for 2022-23 in time. & A.R. Submitted up to = 2022-2023	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mines Manager = Pramod Sarode Mining Engineer = Promod Sarode Geologist = Atul Mandrekar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes.	Covered under Current (O/C) Working = 7.36 Ha Reclaimed/Rehabilitated= 10.554 Ha Occupied by plant, Buildings, residential, welfare buildings & roads = 2.716 Ha Other purpose= 6.722 Ha Work done under Progressive mine closure plan during the year = 2.432 Ha	
9d	Scrutiny of Annual return on afforestation	Yes	13267 Saplings are planted within mining lease and 1733 Saplings are planted out of lease	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes.	Closing Stock of ROM in tonnes = 77460.01 Graded Ore 40%-below 45%AL2O3= 53776 Cement= 44088.70
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes.	Sale Value = Rs. 23,85,41,993/- Ex-Mine Price Cement= Rs. 553.74 40%-below 45%AL2O3= Rs. 2794.32
9h	Scrutiny of Annual return on fixed assets	Yes.	Value of Fixed Assets (in Rs.) = Rs. 7243425/-
9k	Scrutiny of Annual return on mining machineries	Yes.	1. Hydraulic Shovel = 4 Nos. (1.0 Cu.M capacity) 2. Wheel Loaders = 3 Nos. (2.5 Cu.M capacity) 3. Wheel Loaders = 3 Nos. (23.2 Cu.M capacity) 4. Crusher = 1 Nos. (230 Tns/Hr Capacity) 5. Crusher = 1 Nos. (100 Tns/Hr Capacity) 6. Other HEMM machinery = 2 Nos. (250 THns/Hr capacity) 7. Trucks = 9 Nos. (10 Tonnes capacity) 8. Other HEMM machinery (Rock Breakers)= 4 Nos. (55 THns/Hr capacity)

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

**Date :**

**(NARESH KUMAR KATARIYA)**

Indian Bureau of Mines